Region 6 Sample Control Center, e-mail to warren.christy@epa.gov or to perez.myra@epa.gov

REQUEST FOR LABORATORY SAMPLE ANALYSES

Site Name: Wilcox Oil Company	City/State: Bristow, OK	CERCLIS #: OK0001010917
GPRA Account #:2015 T 06L 06GGCO00	Site Spill ID # 06GG	Type of Investigation/Purpose: RI
EPA SAM, RPM, OSC: Katrina Higgins-Coltrain (RPM) Mail Code: 6SF-RL	Analytical Turnaround Time Region 6 Lab: 35__X__ CLP Organics: 7___ 14___ 21_X__ CLP Inorganics: 7___ 14___ 21 X_	Type of Contract: EPA RAC Contractor: Patrick Appel Direct: 972-453-5038 Cell: 817-437-0563 Luis Vega Direct: 972-459-5040 Cell: 214-280-9031
		Shipping Contact: Patrick Appel and Luis Vega
Telephone #: 214-665-8143	Are preliminary results required? 48 hrs VOA ( ) Yes (X) No 72 hrs Extractables ( ) Yes (X) No 72 hrs Inorganics ( ) Yes (X) No	Telephone #: see above
Fax #:		On Site Ph #: see above
(915)		E-Mail address: Patrick Appel pappel@eaest.com Luis Vega lvega@eaest.com
Potential Enforcement Action? () Yes (X) No	Requires justification and prior approval.	Date Sample Control Center Received Request For Sample Analysis:
Proposed Sampling Period: week of October 23, 2017		

Please assure that this request for analytical services has been signed and dated by the appropriate Site Assessment Manager, Remedial Project Manager, or On Scene Coordinator. Please assure that the Sample Control Center has a copy of all relevant Quality Assurance Project Plans (QAPPs) and Sampling and Analysis Plans (SAPs).

Is the QAPP, QASP, SAP, O&M Plan, GWMP,DAW, or other relevant plan being submitted with this Request For Sample Analyses? QAPP was previously submitted **6/30/16**
If no, please explain (expected date of submission etc.): **Submitted 6/30/16**

Signature of **EPA Site Assessment Manager (SAM), Remedial Project Manager (RPM), or On Scene Coordinator (OSC)** to signify approval of this analytical service request.
Signature: _____ Date: _____

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To most efficiently obtain laboratory capability for your request, please address the following considerations. Incomplete or erroneous information may result in a delay in the processing of your request.

1. General description of analytical services requested: (QA/R5 - Element B1)

Matrix	Analysis	Number of Samples (without QC) high/low conc	Field QC Samples	
			How many?	Type?
Water	Volatiles (including EDB) Low Water	21	2 2 1 2	Trip blank Duplicate Matrix Spike Field Blank
	Semivolatiles Low Water	21	2 1	Duplicate Matrix Spike
	PAHs Low Water by SIM	21	2 1	Duplicate Matrix Spike
	Hexavalent Chromium (total)	21	2 1	Duplicate Matrix spike
	Hexavalent Chromium (dissolved)	21	2 1	Duplicate Matrix spike
	Metals including mercury (total)	21	2 1	Duplicate Matrix spike
	Metals including mercury (dissolved)	21	2 1	Duplicate Matrix spike
	Cyanide	21	2 1	Duplicate Matrix spike
	Total organic carbon	21	2	Duplicate
	hardness	21	2	Duplicate
	Total dissolved solids	21	2	Duplicate
	Total suspended sediment	21	2	Duplicate
	alkalinity	21	2	Duplicate
Sediment	Volatiles	21	2 2 1 2	Trip blank Duplicate Matrix spike Equipment Blank
	Semivolatiles	21	2 1	Duplicate Matrix spike
	PAHs	21	2 1	Duplicate Matrix spike
	Metals including mercury	21	2 1	Duplicate Matrix spike
	Cyanide	21	2 1	Duplicate Matrix spike
	AVS/SEM	21	2	duplicate
	Total Organic Carbon	21	2	duplicate
	Grain size	4	1	duplicate
	pH	21	2	dupliacte

Additional description (areas where samples are being collected etc.):

2. Analytical protocol required (analytical method & method number, extraction or digestion method & method number, CLP SOW reference, for each matrix if required, etc.): (QA/R5 - Element B4)

Current CLP methods (04/06/16) are: Organics by SOM02.3 Inorganics by ISM02.3

Refer to attached Table 12 and excel sheets.

Matrix	Analysis	Methods
Soil	Volatiles	5035 + SOM02.3 (Low Soil)
	Semivolatiles	SOM02.3 (Low Soil)
	PAHs	SOM02.3 (Low Soil by SIM)
	Metals including mercury	ISM02.3/ICP-MS (with ICP-AES for salts only)
	Cyanide	ISM02.3
Water	Volatiles	SOM02.3 (Low Water)
	Semivolatiles	SOM02.3 (Low Water)
	PAHs	SOM02.3 (Low Water by SIM)
	Metals, including mercury	ISM02.3/ICP-MS (with ICP-AES for salts only)
	Cyanide	ISM02.3
	Hexavalent Chromium	SW-846 Method 7199 or Standard method 218.7
	Total organic carbon	Standard Method 5310
	hardness	EPA Method 130.2
	Total dissolved solids	EPA Method 160.1
	Total suspended sediment	ASTM Method D 3977-97
	alkalinity	Standard Method 2320 B
Sediment	Volatiles	SOM02.3 (Low)
	Semivolatiles	SOM02.3 (Low)
	PAHs	SOM02.3 (Low by SIM)
	Metals, including mercury	ISM02.3/ICP-MS (with ICP-AES for salts only)
	Cyanide	ISM02.3
	AVS/SEM	EPA 821/R-91-100 SW-846 Method 6010C/9034
	Total Organic Carbon	Standard Method 5310B
	Grain size	ASTM Method D422
	pH	SW9045C

Additional Information:
Complete the following information if Method 5035 for VOA soils has been requested:

	# of low conc. soils	# of medium conc. soils		Type of Vials	# of low conc. soils	# of medium conc. soils

Three 5-gram coring tool devices (e.g., EnCore) samplers	35					

3. CLP Modified Analysis Clause - The latest Statement of Works (SOWs), includes a modified analysis clause. The modified analysis allows the regions to request minor changes to current SOW analytical methods in order to meet specific field site requirements. The changes are limited in scope and must be approved by the EPA CLP Program Manager and Contracting Officer before implementation. Information must be submitted **three weeks** prior to the sampling event. The information the client must submit three weeks prior to the sampling event are; Lab Request Form and the approved sampling plan/QAPP.

4. Analytical results required (specify laboratory documentation and reporting requirements, reporting units, format requirements, etc.): (QA/R5 - Elements A6 and B4)

   Standard CLP and/or EPA Region 6 Houston Lab deliverable

5. Data requirements (reporting limits; per analyte per matrix; reporting units; applicable reference levels, etc.): (QA/R5 - Elements A7, B1, and B4) (Attach extra pages if necessary) For CLP capabilities - http://www.epa.gov/superfund/programs/clp/facts.htm. For Region 6 Laboratory capabilities - http://www.epa.gov/earth1r6/6lab/r6lab.htm

   Note: Samples submitted to the CLP for analysis must be low or medium concentration, single phase, homogenous (not oily), soil, sediment, or water. Also, samples with matrix related problems (oily material, high concentration of compounds, etc.) and/or high moisture content will raise the method CRQL's.

   a. Compounds/chemicals of concern (Action levels etc.) – **Required information – List the compounds/analytes driving the investigation and the action level required to meet DQO's.**

Parameters	Action Levels / Detection Limits	
	water (µg/L)	soil/sediment (µg/kg)
Primary focus: PAHs are the target compounds for site media. **Secondary focus: metals in water.**		

The excel tables provide the volatile, semivolatile, PCB, Pesticide, Dioxin, and metals parameters that are of highest interest for the site. The Project screening level is the requested Action Level/Detection limit for this project. Tab 1 is for ground water, Tab 2 is for air, and Tab 3 is for soil.

6. QC Requirements (PE samples & frequency, spikes, duplicates, blanks, & frequency)

QC Type	Frequency	QC Limits
Trip Blank	1 per cooler	See Tables 12 and 4 in final SAP.

Duplicate	1 per 10
Matrix Spike	1 per 20

Matrix	Analysis	Reporting Limit Requested
Water	TOC	1 mg/L
	Total alkalinity	1 mg/L
	TDS	10 mg/L
	Hardness	10 mg/L
Sediment	AVS/SEM	µmol/g (micromole/gram) – not specified/lowest obtainable
	Total Organic Carbon	mg/kg – not specified/lowest obtainable